

Audible Alarm

Instruction Manual

[TYPE:EWHS]

We thank you for purchasing PATLITE Audible Alarm.

Before you start using the product, please read this instruction manual carefully to use the product correctly.

Please store this document in a safe place.



Be sure to read this document again when you are about to perform tasks such as maintenance and repair.

And if you have any questions, contact a branch office or the technical support printed on the last page.

Safety Precautions

The precautions which must be observed to prevent damage to the person using the product, to people around it, or to property are described in a manner shown below

■ The seriousness of injury or damage caused by ignoring the indication and using the product in a wrong way is categorized with the indications below and descriptions are added to each of them

 Warning	The sections with this indication contain "items which could cause death or serious injury" if ignored.
 Caution	The sections with this indication contain "items which could cause injury or property damage only" if ignored.

1. Cautions Which Must Be Observed for Safety Use

Warning

- Be sure to turn the power off before wiring or installing the product. Failure to do so may cause electric shock.
- Take care to perform wiring correctly. If the wiring is incorrect, internal circuit may be damaged by fire, and it may also be a cause of fire.
- As for the power source, be sure to use this product within the allowable range of voltage. Failure to do so may be a cause of fire or damage to the product.
- Do not disassemble or convert the product. It may cause a fire or electric shock. For repair or inspection of the internal parts of the product, contact a branch office or the technical support printed on the last page.
- Be sure to let specialists perform installation task which requires construction work. Failure to do so may cause electric shock, fire, or falling.

Caution

- To protect the power source and the internal circuit of the body, be sure to insert an external fuse.
- Be sure to use the product with the cover on the upper surface of the case fixed at the specified torque value. Entry of water or dust may cause malfunction.

Other Precautions

- Use the product in an environment where there are no high-intensity radiowaves or inductive noise. The horn may generate noise.
- Use the product in an environment where there is no corrosive gas. Failure to do so may cause malfunction.
- In case the product is used for security purposes in which safety is emphasized, be sure to perform daily maintenance, and use the product in combination with other devices to prepare for the occurrence of unlikely events such as malfunction or failure.
- Perform installation of each part by fastening them with the recommended torque value.
- Before starting work on the product, discharge static electricity from your body to prevent electrostatic breakdown. The static electricity can be discharged by touching another grounded metal part with bare hands.
- Do not use the product in a location where there is more vibration than the value defined in the specifications. It may cause damage to or falling of the body.
- In case the product is to be used outdoors, be sure to insulate the parts of cable connection. Failure to do so may cause malfunction or electric shock.

Failures caused by using the product in ways not observing the Warnings and Cautions, by disassembling or converting the product, or by natural disaster are not covered under warranty.

And do not use the product in ways other than the ways described in this document.

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded in EWHS-A, C and D types outside of Japan; therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. EWHS-E type is recommended for use outside of Japan as this model does not include copyrighted music or songs, and the permission is not required.

2. Model Indicating Format

EWHS - 24 A - J

■ Normal-rated voltage

24: 12-24V AC/DC
48: 48V DC
100: 100V AC
200: 200V AC

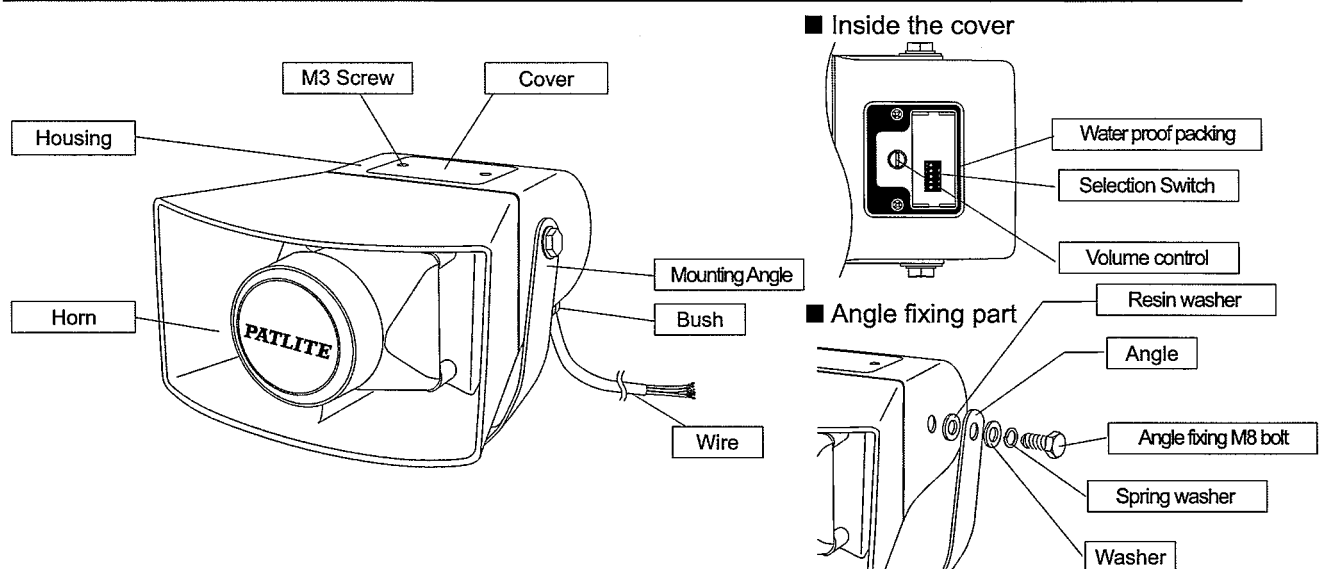
■ Sound Chart type

A: Type A
C: Type C
D: Type D
E: Type E

■ Color of body

J: Light gray
R: Red
Y: Yellow

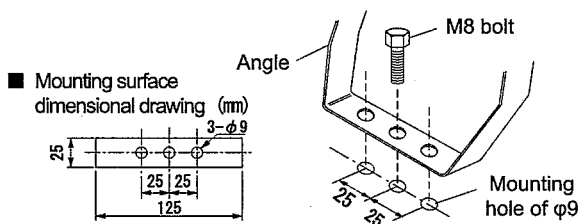
3. Part Names



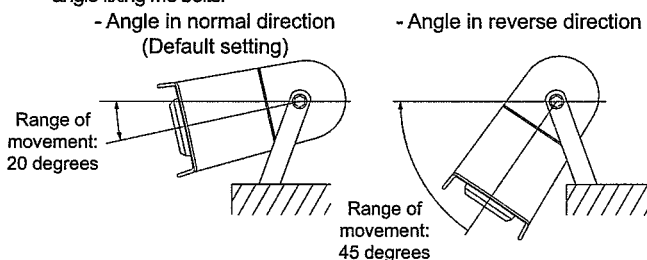
4. How to Install

- The angle fixing M8 bolt is tightened only temporarily. Be sure to tighten it more securely when installing it. (Recommended tightening torque value: 12.0N · m)

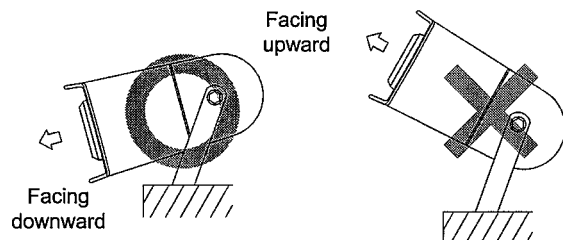
- When installing it, fix the angle with the angle fixing M8 bolt at three locations. In case the product is installed in a place where vibrations are especially strong, fix the body to prevent it from falling.



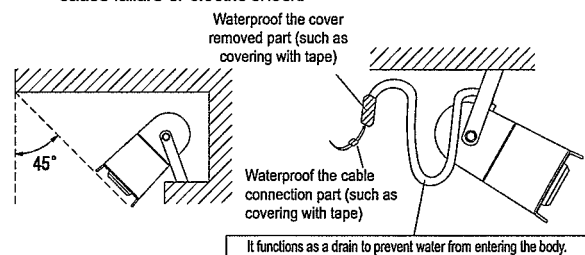
- In case the angle is installed with the back side coming to the front, the horn's range of movement widens in the lower direction.
- To change the orientation of the angle, remove the angle fixing M8 bolts, mount the angle in the opposite direction, and then retighten it with the angle fixing M8 bolts.



- Do not install the horn facing upward. Water or dust may enter, and cause failure.



- When the product is installed outside the building, install the product inside a line drawn 45 degrees from the edge of the eaves to protect the product from direct exposure to strong wind and rainfall. And as for the cables, be sure to waterproof the parts where the cover is removed or cables are connected, and connect the cable in slackened state. If water enters through a part where the cover is removed, it may cause failure or electric shock.



- *Be sure the cover on top of the case is fixed before using the product. If water or dust enters the product, it may cause failure.

Warning

- Be sure to turn the power off before installing the product. Failure to do so may cause electric shock.

Caution

- Ensure that the mounting surface has sufficient strength to support the weight of the product, and do not use the product in places where there is more vibration than the value defined in the specifications. Failure to do so may cause injury or damage to the product due to falling of the product.
- Be sure to tighten the angle fixing M8 bolt with the recommended tightening torque. Failure to do so may cause injury or damage to the product due to the product falling over.

Other Precautions

- In case the product is installed in a place where strong vibrations occur, be sure to retighten the screws and bolts periodically.

5. How to perform Wiring

- There is no polarity of + or - for the AC type.

■ Wiring example

★ Voltage rating

EWHS-24	12-24V AC/DC
EWHS-48	48V DC
EWHS-100	100V AC
EWHS-200	200V AC

★ Inrush current *1

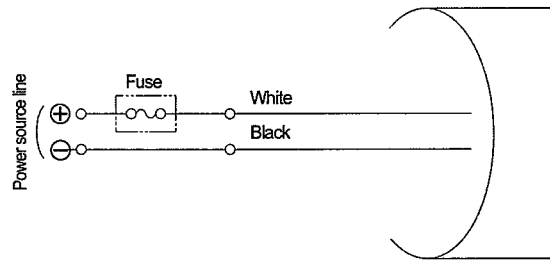
EWHS-24	42A or lower/1.5ms
EWHS-48	6.5A or lower/800μs
EWHS-100	None
EWHS-200	None

★ Fuse capacity *2

EWHS-24	1A (Inrush current resistant)
EWHS-48	1A (Normal)
EWHS-100	1A (Normal)
EWHS-200	1A (Normal)

*1 When the power is turned on with the maximum voltage in the allowed range.

*2 Use an inrush current resistant fuse for the EWHS-24. A normal fuse may be burned out by the inrush current.



⚠ Warning

- Take care to perform the wiring correctly. Failure to do so may cause damage to the internal circuit by fire, and it may also cause fire.

⚠ Caution

- To protect the power source circuit and internal circuit of the body, be sure to install an external fuse.

Other Precautions

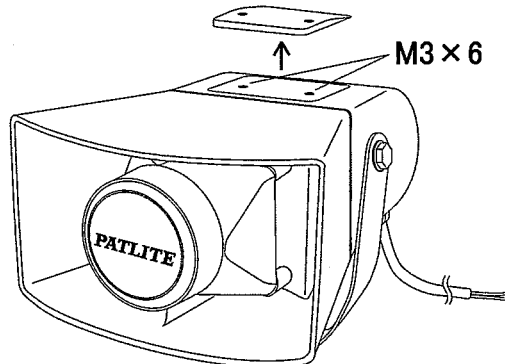
- In case a no-voltage contact circuit such as a relay switch is to be connected to the power source line, choose a relay switch or the like in consideration of the contact capacity and the value of the inrush current. Insufficient capacity may cause adhesion to the contact or malfunction.

6. How to Operate

6-1. Removing and Fixing the Cover

When adjusting the volume or selecting the tone color, remove the cover.

- Remove or fix the cover according to the procedure shown below.
 - ① Remove the two mounting screws (M3 x 6).
 - ② Remove the cover.
 - ③ After completing the task, mount the parts removed according to procedure ① and ② in reverse order.
 (Recommended torque value for the cover mounting screw: 0.6N · m)



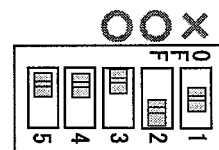
Other Precautions

- After completing the task, be sure to mount the cover. And be sure to operate this product with the cover being mounted. If it is not mounted, water or dust may enter, and it may cause failure.
- Tighten the cover mounting screws with the recommended torque value. Failure to do so may cause failure due to submersion under water.

6-2. Selecting a Sound

A sound can be selected from the sound list 1 - 32.

- A sound is selected with the selection switch.
- Set the selection switch to the sound you want to play according to the sound list.



(Selection switch)

Other Precautions

- Be sure to use a tool with a fine tip in selecting with the selection switch to move the knob to either end where ON or OFF is selected. When the knob is placed near the center as shown in the figure, the sound to be played may be uncertain.

● Sound Chart type A (Model:EWHS-□A)

★ Sound list (※Factory default setting)

1 ※ Beep (slow intermittent horn)	2 Stutter (rapid intermittent horn)	3 Bell (clear highpitched bell)	4 Yelp (rapid siren)	5 Rapid Hi-Lo	6 Melody Chime	7 Synthesized Piano	8 Synthesized Bell
9 Stutter (rapid intermittent horn) Bell (clear highpitched bell)	10 Synthesized Melody Chime	11 Chime	12 Call sign	13 Fur Elise	14 Maiden's Prayer	15 Minuet	16 Annie Laurie
17 London Bridge is Falling Down	18 Holdiridia	19 Mary Had a Little Lamb	20 Camptown Races	21 Kuck kuck	22 Der Schmied im Walde	23 On the Bridge of Avignon	24 Daydream Believer
25 Amaryllis	26 Mozart Symphony No.40	27 Itsy Bitsy Spider	28 Ich bin ein Musikanter	29 Jeux Interdits	30 Katuscha	31 Grandfather's Clock	32 Ave Maria

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20:FOSTER STEPHEN COLLINS 22:SONG authorized by the Ministry of Education 23:WERNER HEINRICH (DE 2) 24:STEWART JOHN C26:MOZART WOLFGANG AMADEUS 30:BLANTER MATVEY ISAAKOVICH
31:WORK HENRY CLAY 32:SCHUBERT FRANZ

● Sound Chart type C (Model:EWHS-□C)

★ Sound list (※Factory default setting)

1 ※ Beep (slow intermittent horn)	2 Stutter (rapid intermittent horn)	3 Bell (clear highpitched bell)	4 Yelp (rapid siren)	5 Rapid Hi-Lo	6 Melody Chime	7 Synthesized Piano	8 Synthesized Bell
9 Stutter (rapid intermittent horn) Bell (clear highpitched bell)	10 Synthesized Melody Chime	11 Chime	12 Call sign	13 Can't Take My Eyes off of You	14 Top of the World	15 The Entertainer	16 Amazing Grace
17 Amairono Kamino Otome	18 Les Champs-Elysees	19 Canon	20 Rara Sanshain	21 Uchuusenkan Yamato	22 Oshiete	23 Makenaide	24 Gonna Fly Now (Theme for "Rocky")
25 I Don't Want to Miss a Thing	26 Yozorano Mukou	27 Aiwa Katsu	28 TRUTH	29 Gattsudaze	30 Odoru Ponpokorin	31 Imasugu Kisu Mi	32 Haruyo Koi

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21:Hiroshi Miyagawa 22:Takeo Watanabe 23,30:Tetsuro Oda 24:CONTI BILL 25:WARREN DIANE EVE 26:Yuka Kawamura 27:KAN 28:Masahiro Andoh 29:Totsu Matsumoto
31:Tatsuya Hirakawa 32:Yumi Matsutoya

● Sound Chart type D (Model:EWHS-□D)

★ Sound list (※Factory default setting)

1 ※ Beep (slow intermittent horn)	2 Stutter (rapid intermittent horn)	3 Bell (clear highpitched bell)	4 Yelp (rapid siren)	5 Rapid Hi-Lo	6 Melody Chime	7 Synthesized Piano	8 Synthesized Bell
9 Chime	10 Call sign	11 Runner	12 Mamotte Agetai	13 Oribiao Kikunagara	14 A September	15 Doyubino Kobito	16 Akino Kehai
17 Sasfu Tengoku Suki Tengoku	18 Iro Howaitoburendo	19 Happy Birthday	20 Hi Ho	21 I've been working on the Railroad	22 Bear Song	23 Toys Go Cha Cha Cha	24 Konnako Irukana
25 Wiegenlied	26 Rudolph the Red-nosed Reindeer	27 She Wore a Yellow Ribbon	28 Oh My Darling Clementine	29 Yellow Rose of Texas	30 Yankee Doodle	31 When the Saints Go Marching In	32 Londonderry Air

Author 11:New Funky Sueyoshi 12-17:Yumi Matsutoya 13:Ami Ozaki 14:Tetsuji Hayashi 15:Tatsuro Yamashita 16:Kazumasa Oda 18:Maria Takeuchi 19:HILL MILDRED J
20:CHURCHILL FRANK E 21-22-27-29-30-31-32:TRADITIONAL 23:Nobuyoshi Koshibe 24:Takekshi Shibuya 25:SCHUBERT FRANZ 26:MARKS JOHN D 28:American folk song

JASRAC
T-0680152
T-0710139
T-0710140

● Sound Chart type E (Model:EWHS-□E)

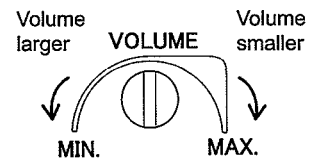
★ Sound list (※Factory default setting)

1 ※ Beep (slow intermittent horn)	2 Stutter (rapid intermittent horn)	3 Bell (clear highpitched bell)	4 Yelp (rapid siren)	5 Rapid Hi-Lo	6 Melody Chime	7 Synthesized Piano	8 Synthesized Bell
9 Stutter (rapid intermittent horn) Bell (clear highpitched bell)	10 Synthesized Melody Chime	11 Chime	12 Call sign	13 Train Ride	14 Gallop Hi-Lo	15 Alien Chatter	16 Falling Crystals
17 Inverted Reveille	18 Garactic Motor	19 Ringing Phone	20 Two Tone	21 Alarm Clock	22 Ringing Hi-Lo	23 Fur Elise	24 Minuet
25 Annie Laurie	26 London bridge is falling down	27 Mary had a little lamb	28 The camptown Races	29 Amaryllis	30 Symphony No.40	31 Ave Maria	32 Grandfather's Clock

6-3.Adjusting the Sound Volume

The sound volume can be adjusted using the volume control.

- Use a flat-blade screwdriver with the blade thickness of 1.0mm or thinner for turning the volume control.



Other Precautions

- Turn the volume control lightly. It may be damaged if a torque of 0.1N · m or more is applied.

Information

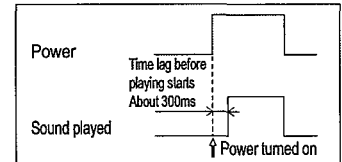
- When the volume is set to high, the sound may be distorted in some tone colors.
- In some cases the volume may not be zero even if the volume control is set to the minimum.

6-4.How to Play Sound

The sound selected in Section 6-2. Selecting a Sound is played by turning on the power.

- A time lag of about 300ms occurs before playing a sound after turning on the power.

Timing chart



Information

- A popping noise may be generated when the power is turned on or off. But this is normal.
- When multiple units are used in combination, there may be a difference in playing speed even if the power is turned on at the same time.

7.Before You Request a Repair

Symptom	Points to be checked	Coping strategies
No sound is played	Is the power supplied?	Confirm the wiring and the power supply voltage.
	Is the volume control not set to the minimum?	Adjust the volume.
A sound of different channel is played	Is the selection made correctly with the selection switch?	Confirm the selection switch.

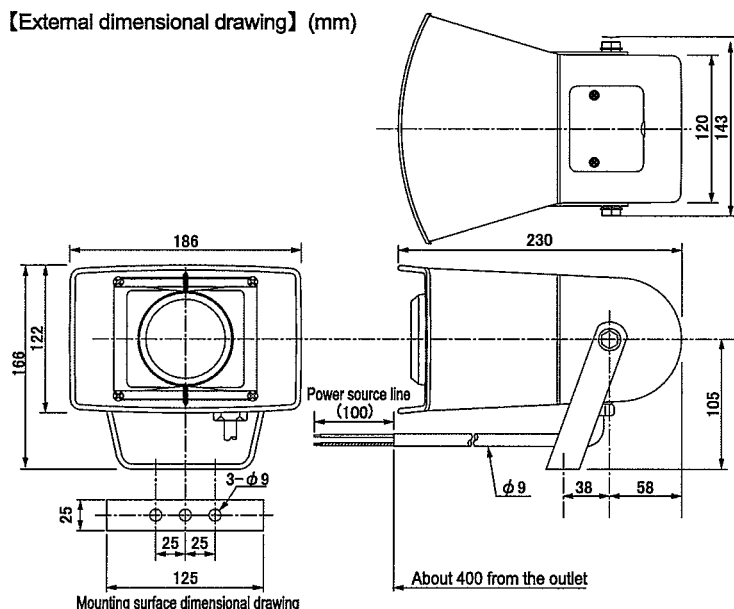
※If the product does not operate correctly even after it is properly installed and handled,
contact a branch office or the technical support printed on the last page.

8.Specifications

Model	EWHS-24□	EWHS-48□	EWHS-100□	EWHS-200□
Rated voltage	12-24V AC/DC	48V DC	100V AC	200V AC
Operating voltage range	9V~35V DC 8V~26V AC	35V~60V DC	90V ~ 132V AC 50/60Hz	180V ~ 260V AC 50/60Hz
Power consumption	Max. 8W	Max. 8W	Max. 10W	Max. 10W
Volume	Max. 105dB (at 1m) Adjustable with volume control Volume may be less, depending on the sounds and operation conditions.			
Audio output lag time	Approx. 300msec			
Selectable channels	32 Channels			
Operating temp. range	-20 ~ 50°C			
Operating humidity	Max. 85% RH (No condensation)			
Mounting direction	Indoor : Normal,Reverse and Lateral direction are possible Outdoor : Normal direction only (However,the horn opening should be downward more than the horizontal.)			
Protection Rating	IP 53			
Vibration resistance	45m/s ² (JIS C0911-1984)			
Mass	1.3kg±10%		1.5kg±10%	

- Please note that we will not be held responsible for the failure or damage caused by handling the product in ways not observing the warnings or cautions contained in this document.
- Please note also that the contents in this document may be changed for improvement without notification in advance.

【External dimensional drawing】 (mm)



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